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FILE AUTH. _____ CALL UP _____

☐ TEMP ☐ FILE CAPTION U.S. L

DATE October 12, 1977

TO R. E. Bisciine

CC E. D. Keiper
R. P. Medlin

"LIQUID WRENCH"
BENZENE CONTENT

Doug Leitch advised me that while attending a professional society meeting he learned about another company's concern with the benzene concentration in Liquid Wrench. Our laboratory analysis showed thirty percent benzene by volume. This information was relayed to Corporate Safety for their confirmation and recommendations.

Doug's cooperation in helping us to achieve the Company's objectives concerning possible benzene exposure is appreciated.

Until we receive additional information from headquarters, it is suggested that the use of Liquid Wrench be minimized as much as possible and any use be confined to a well ventilated area.

J. L. Weaver

JLW:ah

EXHIBIT
tabbies
4

14-0161

408 037856

CO-273 (6-75)

INTEROFFICE CORRESPONDENCE

Safety & Security

OCT 10 '77

Action		Info
	JLW	
	CH	
	JWM	
	RWM	
	CWC	
	EGW	
	RSM	
	JPV	

Reply By | File 10.5.2

M. A. Mehlman

October 6, 1977

cc: P. R. Carl
W. J. Selfridge, Jr.
J. L. Wescoat

"LIQUID WRENCH"
BENZENE CONTENT

"Liquid Wrench" is a common rust breaking solvent used by Maintenance personnel throughout Mobil. J. L. Wescoat of the Beaumont Refinery, had a laboratory analysis made of this product and found the Benzene content to be 30%.

This material is usually squirted from small cans, less than one pint, onto pipe threads close to a man's breathing zone and when a wrench is used, the man also is in close proximity to the material.

We feel use of this material should be discontinued. We would appreciate your arranging for a confirming analysis of this product and advices regarding future use or discontinuance. If a replacement product is advised, please provide an "acceptable" list.

pdc

W. T. Gregg

14-0162

MOB 037857

7710dk

FR-201 (1-62)

110.5.2

10-4 1977

From: Analytical Laboratory

To: M H. MEYNIG, J.L. WESCOAT

Subject: Liquid Wrench Kits

Product	Benzene % Vol.
WD-40	Nil
Liquid Wrench	30.0

Safety & Security
OCT 5 77.

Action		Info
	JLW	
	CH	
	RWM	
	GWC	
	EGW	
	PSM	

Reply By	File
	110.5.2

WWM/WAB/JDF/JHL

Pls attach to correct re Liquid Wrench

14-0163

HOB 037858

17 1018

Technical Service Laboratories
Mobil Technical Center
Princeton, New Jersey

October 18, 1977

Safety & Security		
OCT 24 '77		
Action		Info
	JLW	
	CH	
	[illegible]	
	GWC	
	[illegible]	
	PSM	
	[illegible]	
Reply By	File	110.5.1

P. R. Carl

cc:
J. I. Butzner - Pauls. Lab.
P. L. Gerard - Pauls. Lab.
W. T. Gregg
M. A. Mehlman
W. J. Selfridge
J. L. Wescoat - Beaumont Refinery

ANALYSIS OF "LIQUID WRENCH"

Project: 06-343
File: 96-30C

We refer to W. T. Gregg's letter to M. A. Mehlman of October 6 requesting an analysis of "Liquid Wrench". The product is used extensively by maintenance personnel throughout Mobil and there is concern of its reportedly high benzene content.

We obtained a one pint sample of this product from a local store. Our analysis of the product showed that it was a simple mixture of two components.

99.9% Wt. Aromatic Solvent
0.1% Wt. Colloidal Graphite

It contained no fat and the ash content was negligible. The aromatic solvent had the following characteristics:

Benzene Content - 7.0% Vol.
Distillation Range
IBP% - 106°F
10% - 192°F
20% - 200°F
30% - 208°F
40% - 216°F
50% - 226°F
60% - 241°F
70% - 255°F
80% - 268°F
90% - 281°F

COMMENTS

The benzene content is not as high as the figure (30%) reported by J. L. Wescoat. However, we concur with the observation that a man using this material might inhale benzene vapors. In any case, since

8-1880

MOB 037547

this product contains more than 1% benzene, it falls within the scope of the Emergency Temporary Standard issued by OSHA(1) which requires that workers using the material be monitored. We suggest that the use of the material be discontinued and an alternate be found. If further chemical identification of the total aromatic solvent in the sample is required, we would be pleased to provide it. Beaumont maintenance personnel may have had experience with other rust-breaking solvents or can choose one after checking its effectiveness. We would be glad to check the composition (including benzene content) of any which are submitted to us for analysis.

RSRoberton/blm

W. F. HERGRUETER

(1) Federal Register 1910.1028

8-1881

MOB 037548

18 - Mobil
Tested Liquid Wrench
2 tests 7% & 30% B3.
Dec '78
L.W. tests
B3.

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